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## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

## LISTING OF CLAIMS

1. (Currently amended) A portable security system for managing access to a portable data storage cartridge, said data storage cartridge having data storage media for storing data for read/write access by a user of a data storage drive when mounted in said data storage drive, said portable security system comprising:

a wireless interface mounted in said portable data storage cartridge for receiving power and data from, and sending data to, said data storage drive when mounted in said data storage drive; and

a computer processor mounted in said portable data storage cartridge separate from said data storage media, and coupled to said wireless interface; said computer processor powered by said wireless interface and receiving and transmitting data to said data storage drive via said wireless interface; said computer processor having a user table separate from said data storage media, said user table comprising at least a unique user identifier for each authorized user and at least one permitted activity said user is authorized to conduct with respect to said data storage media, said user identifier, when combined with a user authentication message from said authorized user in accordance with a predetermined algorithm, authorizes said user; said computer processor receiving said user authentication messages from said data storage drive via said wireless interface, combining said user authentication message with at least part of said user identifier from said user table in

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accordance with said predetermined algorithm to authorize or deny said user activity, and transmitting said user authorization or denial to said data storage drive via said wireless interface.

- 2. (Original) The portable security system of Claim 1, wherein said wireless interface comprises an RF interface.
- 3. (Original) The portable security system of Claim 1, wherein each said user identifier comprises a user symbol and a user decrypting key, wherein said user authentication message comprises an encrypted user authentication message which may be decrypted by said user decrypting key, and wherein said computer processor conducts said combination by decrypting said user authentication message by said user decrypting key.
- **4.** (Original) The portable security system of Claim **3**, wherein said user decrypting key comprises a sender public key, and wherein said predetermined algorithm comprises a public key cryptographic algorithm.
- 5. (Original) The portable security system of Claim 4, wherein said user authentication message is encrypted by a sender private key and a receiver public key, and wherein said public key cryptographic algorithm decrypts said user authentication message employing a receiver private key and said sender public key, whereby said user authentication message is known to have come from said user.
- 6.(Original) The portable security system of Claim 1, wherein said computer processor user table permitted activities comprise a plurality of permitted activities, selected ones of which each of said users may be authorized to conduct, said permitted activities comprising 1) read access to data stored in said data

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storage media, 2) write access to data stored in said data storage media, 3) read the user entry of said user table, 4) read all entries of said user table, 5) add entries to said user table, and 6) change/delete entries to said user table.

- 7. (Original) The portable security system of Claim 1, wherein said computer processor user table comprises a separate entry for each said user identifier and said permitted activity said user is authorized to conduct.
- 8. (Original) The portable security system of Claim 1, wherein said computer processor user table comprises a separate entry for each said user identifier, said entry comprising all said permitted activities said user is authorized to conduct.
- **9.** (Original) The portable security system of Claim **1**, wherein said computer processor additionally comprises a nonvolatile memory storing said user table.
- 10. (Original) The portable security system of Claim 1, wherein said computer processor additionally comprises a class table comprising at least a unique class identifier for each authorized class of users and at least one permitted activity said class of users is authorized to conduct with respect to said data storage media, said class identifier, when combined with a user authentication message from a user of said authorized class of users in accordance with said predetermined algorithm, authorizes said user; and wherein said computer processor additionally, upon receiving said user authentication messages from said data storage drive via said wireless interface, combining said user authentication message with said class identifier from said class table in accordance with said predetermined algorithm to authorize or deny said class activity to said user, and

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transmitting said class authorization or denial to said data storage drive via said wireless interface.

- 11. (Original) The portable security system of Claim 10, wherein said computer processor user table additionally comprises any class membership of each said user, wherein said user may be authorized with respect to said class table either by said class authorization or by said user authorization.
- 12. (Original) The portable security system of Claim 10, wherein said computer processor user table and said class table permitted activities comprise a plurality of permitted activities, selected ones of which each of said users may be authorized to conduct, said permitted activities comprising 1) read access to data stored in said data storage media, 2) write access to data stored in said data storage media, 3) read all entries of said class table, 4) add entries to said class table, and 5) change/delete entries to said class table.
- 13. (Original) The portable security system of Claim 10, wherein said computer processor additionally comprises a nonvolatile memory storing said user table and said class table.
- 14. (Original) The portable security system of Claim 1, wherein said data stored in said data storage media is encrypted, wherein said computer processor user table permitted activities comprise at least 1) read access to data stored in said data storage media, and wherein said user authorization for said read access additionally comprises a decryption key for said encrypted stored data.

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15. (Currently amended) A data storage cartridge for storing data for read/write access by a user of a data storage drive when mounted in said data storage drive, comprising:

data storage media mounted in said data storage cartridge for storing said data for said read/write access;

a wireless interface mounted in said portable data storage cartridge for receiving power and data from, and sending data to, said data storage drive when mounted in said data storage drive; and

a computer processor mounted in said portable data storage cartridge separate from said data storage media, and coupled to said wireless interface; said computer processor powered by said wireless interface and receiving and transmitting data to said data storage drive via said wireless interface; said computer processor having a user table <u>separate from said data storage</u> media; said user table comprising at least a unique user identifier for each authorized user and at least one permitted activity said user is authorized to conduct with respect to said data storage media, said user identifier, when combined with a user authentication message from said authorized user in accordance with a predetermined algorithm, authorizes said user; said computer processor receiving said user authentication messages from said data storage drive via said wireless interface, combining said user authentication message with at least part of said user identifier from said user table in accordance with said predetermined algorithm to authorize or deny said user activity, and transmitting said user authorization or denial to said data storage drive via said wireless interface.

16. (Original) The data storage cartridge of Claim 15, wherein said wireless interface comprises an RF interface.

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17. (Original) The data storage cartridge of Claim 15, wherein each said user identifier comprises a user symbol and a user decrypting key, wherein said user authentication message comprises an encrypted user authentication message which may be decrypted by said user decrypting key, and wherein said computer processor conducts said combination by decrypting said user authentication message by said user decrypting key.

- 18. (Original) The data storage cartridge of Claim 17, wherein said user decrypting key comprises a sender public key, and wherein said predetermined algorithm comprises a public key cryptographic algorithm.
- 19. (Original) The data storage cartridge of Claim 18, wherein said user authentication message is encrypted by a sender private key and a receiver public key, and wherein said public key cryptographic algorithm decrypts said user authentication message employing a receiver private key and said sender public key, whereby said user authentication message is known to have come from said user.
- 20. (Original) The data storage cartridge of Claim 15, wherein said computer processor user table permitted activities comprise a plurality of permitted activities, selected ones of which each of said users may be authorized to conduct, said permitted activities comprising 1) read access to data stored in said data storage media, 2) write access to data stored in said data storage media, 3) read the user entry of said user table, 4) read all entries of said user table, 5) add entries to said user table.

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- 21. (Original) The data storage cartridge of Claim 15, wherein said computer processor user table comprises a separate entry for each said user identifier and said permitted activity said user is authorized to conduct.
- 22. (Original) The data storage cartridge of Claim 15 wherein said computer processor user table comprises a separate entry for each said user identifier, said entry comprising all said permitted activities said user is authorized to conduct.
- 23. (Original) The data storage cartridge of Claim 15, wherein said computer processor additionally comprises a nonvolatile memory storing said user table.
- 24. (Original) The data storage cartridge of Claim 15, wherein said computer processor additionally comprises a class table comprising at least a unique class identifier for each authorized class of users and at least one permitted activity said class of users is authorized to conduct with respect to said data storage media, said class identifier, when combined with a user authentication message from a user of said authorized class of users in accordance with said predetermined algorithm, authorizes said user; and wherein said computer processor additionally, upon receiving said user authentication messages from said data storage drive via said wireless interface, combining said user authentication message with said class identifier from said class table in accordance with said predetermined algorithm to authorize or deny said class activity to said user, and transmitting said class authorization or denial to said data storage drive via said wireless interface.

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- 25. (Original) The data storage cartridge of Claim 24, wherein said computer processor user table additionally comprises any class membership of each said user, wherein said user may be authorized with respect to said class table either by said class authorization or by said user authorization.
- 26. (Original) The data storage cartridge of Claim 24, wherein said computer processor user table and said class table permitted activities comprise a plurality of permitted activities, selected ones of which each of said users may be authorized to conduct, said permitted activities comprising 1) read access to data stored in said data storage media, 2) write access to data stored in said data storage media, 3) read all entries of said class table, 4) add entries to said class table, and 5) change/delete entries to said class table.
- 27. (Original) The data storage cartridge of Claim 24, wherein said computer processor additionally comprises a nonvolatile memory storing said user table and said class table.
- 28. (Original) The data storage cartridge of Claim 15, wherein said data stored in said data storage media is encrypted, wherein said computer processor user table permitted activities comprise at least 1) read access to data stored in said data storage media, and wherein said user authorization for said read access additionally comprises a decryption key for said encrypted stored data.
- 29. (Previously presented) A method for providing a portable secure interface to a data storage cartridge, said data storage cartridge having data storage media for storing data for read/write access by a user of a data storage drive when mounted in said data storage drive, and a wireless interface mounted in

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said portable data storage cartridge for receiving power and data from, and sending data to, said data storage drive when mounted in said data storage drive, said data storage cartridge having a user table separate from said data storage media, comprising at least a unique user identifier for each authorized user and at least one permitted activity said user is authorized to conduct with respect to said data storage media, said user identifier, when combined with a user authentication message from said authorized user in accordance with a predetermined algorithm, authorizes said user, said method comprising the steps of:

receiving said user authentication messages from said data storage drive via said wireless interface;

separate from said data storage media, combining said user authentication message with at least part of said user identifier from said user table in accordance with said predetermined algorithm to authorize or deny said user activity; and

transmitting said user authorization or denial to said data storage drive via said wireless interface.

- 30. (Original) The method of Claim 29, wherein each said user identifier comprises a user symbol and a user decrypting key, wherein said user authentication message comprises an encrypted user authentication message which may be decrypted by said user decrypting key, and wherein said combining step comprises decrypting said user authentication message by said user decrypting key.
- **31.** (Original) The method of Claim **30,** wherein said user decrypting key comprises a sender public key, and wherein said predetermined algorithm comprises a public key cryptographic algorithm.

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32. (Original) The method of Claim 31, wherein said user authentication message is encrypted by a sender private key and a receiver public key, wherein said public key cryptographic algorithm decrypts said user authentication message employing a receiver private key and said sender public key, and wherein said combining step comprises decrypting said user authentication message by said receiver private key and said sender public key, whereby said user authentication message is known to have come from said user.

- 33. (Original) The method of Claim 29, wherein said user table comprises a plurality of said permitted activities, selected ones of which each of said users may be authorized to conduct, said permitted activities comprising 1) read access to data stored in said data storage media, 2) write access to data stored in said data storage media, 3) read the user entry of said user table, 4) read all entries of said user table, 5) add entries to said user table, and 6) change/delete entries to said user table; and wherein said transmitting step comprises transmitting authorization to conduct the selected said user permitted activities said user is authorized to conduct.
- 34. (Original) The method of Claim 29, wherein said user table comprises a separate entry for each said user identifier and said permitted activity said user is authorized to conduct; and wherein said transmitting step additionally comprises identifying said user permitted activities from said separate entries.
- **35**. (Original) The method of Claim **29**, wherein said step of providing said user table comprises a separate entry for each said user identifier, said entry comprising all said permitted activities said user is authorized to conduct; and wherein said

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transmitting step additionally comprises identifying said user permitted activities from said user separate entry.

36. (Original) The method of Claim 29, wherein said data storage cartridge additionally comprises a class table comprising at least a unique class identifier for each authorized class of users and at least one permitted activity said class of users is authorized to conduct with respect to said data storage media, said class identifier, when combined with a user authentication message from a user of said authorized class of users in accordance with said predetermined algorithm, authorizes said user;

wherein said combining step additionally comprises, upon receiving said user authentication messages from said data storage drive via said wireless interface, combining said user authentication message with said class identifier from said class table in accordance with said predetermined algorithm to authorize or deny said class activity to said user; and

wherein said transmitting step additionally comprises transmitting said class authorization or denial to said data storage drive via said wireless interface.

- 37. (Original) The method of Claim 36, wherein said user table additionally comprises any class membership of each said user; and wherein said combining step additionally authorizes said user with respect to said class table either by said class authorization or by said user authorization.
- 38. (Original) The method of Claim 36, wherein said user table and said class table comprise a plurality of permitted activities, selected ones of which each of said users may be authorized to conduct, said permitted activities comprising 1) read access to data stored in said data storage media, 2) write

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access to data stored in said data storage media, 3) read all entries of said class table, 4) add entries to said class table, and 5) change/delete entries to said class table; and wherein said transmitting step comprises transmitting authorization to conduct the selected said user and said class permitted activities said user is authorized to conduct.

- 39. (Original) The method of Claim 29, wherein said data stored in said data storage media is encrypted, wherein said step of providing said user table permitted activities comprises providing at least 1) read access to data stored in said data storage media, and wherein said step of transmitting said user authorization for said read access additionally comprises transmitting a decryption key for said encrypted stored data.
- 40. (Currently amended) A computer program product usable with a programmable computer processor having computer readable program code embodied therein for providing a secure interface to a data storage cartridge having data storage media, said programmable computer processor mounted in said data storage cartridge separate from said data storage media, said data storage cartridge having data storage media for storing data for read/write access by a user of a data storage drive when mounted in said data storage drive, and a wireless interface mounted in said portable data storage cartridge for receiving power and data from, and sending data to, said data storage drive when mounted in said data storage drive, said computer program product comprising:

computer readable program code which causes said programmable computer processor to provide a user table separate from said data storage media, said user table comprising at least a unique user identifier for each authorized user and at least one permitted activity said user is authorized to conduct with

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respect to said data storage media, said user identifier, when combined with a user authentication message from said authorized user in accordance with a predetermined algorithm, authorizes said user:

computer readable program code which causes said programmable computer processor to receive said user authentication messages from said data storage drive via said wireless interface;

computer readable program code which causes said programmable computer processor to, separate from said data storage media, combine said user authentication message with at least part of said user identifier from said user table in accordance with said predetermined algorithm to authorize or deny said user activity; and

computer readable program code which causes said programmable computer processor to transmit said user authorization or denial to said data storage drive via said wireless interface.

- 41. (Original) The computer program product of Claim 40, wherein each said user identifier comprises a user symbol and a user decrypting key, wherein said user authentication message comprises an encrypted user authentication message which may be decrypted by said user decrypting key, and wherein said computer readable program code additionally causes said programmable computer processor to conduct said combination by decrypting said user authentication message by said user decrypting key.
- **42**. (Original) The computer program product of Claim **41**, wherein said user decrypting key comprises a sender public key, and wherein said predetermined algorithm comprises a public key cryptographic algorithm.

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- 43. (Original) The computer program product of Claim 42, wherein said user authentication message is encrypted by a sender private key and a receiver public key, wherein said public key cryptographic algorithm decrypts said user authentication message employing a receiver private key and said sender public key, and wherein said computer readable program code additionally causes said programmable computer processor, in conducting said combination, to decrypt said user authentication message by said receiver private key and said sender public key, whereby said user authentication message is known to have come from said user.
- 44. (Original) The computer program product of Claim 40, wherein said computer readable program code additionally causes said programmable computer processor to provide in said user table a plurality of said permitted activities, selected ones of which each of said users may be authorized to conduct, said permitted activities comprising 1) read access to data stored in said data storage media, 2) write access to data stored in said data storage media, 3) read the user entry of said user table, 4) read all entries of said user table, 5) add entries to said user table, and 6) change/delete entries to said user table.
- **45**. (Original) The computer program product of Claim **40**, wherein said computer readable program code additionally causes said programmable computer processor to provide in said user table a separate entry for each said user identifier and said permitted activity said user is authorized to conduct.
- **46.** (Original) The computer program product of Claim **40,** wherein said computer readable program code additionally causes said programmable computer processor to provide in said user table a separate entry for each said user identifier, said entry

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comprising all said permitted activities said user is authorized to conduct.

**47**.(Original) The computer program product of Claim **40**, wherein said computer readable program code additionally causes said programmable computer processor:

to provide a class table comprising at least a unique class identifier for each authorized class of users and at least one permitted activity said class of users is authorized to conduct with respect to said data storage media, said class identifier, when combined with a user authentication message from a user of said authorized class of users in accordance with said predetermined algorithm, authorizes said user;

in conducting said combination, upon receiving said user authentication messages from said data storage drive via said wireless interface, to combine said user authentication message with said class identifier from said class table in accordance with said predetermined algorithm to authorize or deny said class activity to said user; and

in conducting said transmission, to transmit said class authorization or denial to said data storage drive via said wireless interface.

- **48.** (Original) The computer program product of Claim **47**, wherein said computer readable program code additionally causes said programmable computer processor to provide in said user table any class membership of each said user, wherein said user may be authorized with respect to said class table either by said class authorization or by said user authorization.
- **49**.(Original) The computer program product of Claim **47**, wherein said computer readable program code additionally causes said programmable computer processor to provide in said user table and

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said class table a plurality of permitted activities, selected ones of which each of said users may be authorized to conduct, said permitted activities comprising 1) read access to data stored in said data storage media, 2) write access to data stored in said data storage media, 3) read all entries of said class table, 4) add entries to said class table, and 5) change/delete entries to said class table.

50. (Original) The computer program product of Claim 40, wherein said data stored in said data storage media is encrypted, and wherein said computer readable program code additionally causes said programmable computer processor to provide in said user table permitted activities comprising at least 1) read access to data stored in said data storage media, and wherein said computer readable program code additionally causes said programmable computer processor to transmit in said user authorization for said read access, a decryption key for said encrypted stored data.

51. (Withdrawn) A portable data storage cartridge, comprising:

a wireless interface mounted in said portable data storage cartridge configured to receive power and data from, and send data to, a data storage drive, when in said data storage drive; data storage media; and

a portable security system that resides in said portable data storage cartridge, comprising:

a computer processor system residing in said portable data storage cartridge and configured to communicate with said wireless interface, and configured to receive power from said wireless interface; and

a security system configured for operation of said portable data storage cartridge computer processor system arranged to authenticate each of separate users by combining

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a user authentication message received via said wireless interface, with a user identifier of a plurality of user identifiers previously stored by said computer processor system, said user identifiers comprising at least a unique user identifier for each authorized user, said combining in accordance with a predetermined algorithm of said security system.

- 52. (Withdrawn) The portable data storage cartridge of Claim 51, wherein said portable data storage cartridge computer processor system is configured to store said user identifiers of said separate users in a user table of said computer processor system, said user table comprising said at least a unique user identifier for each authorized user and at least one permitted activity said user is authorized to conduct with respect to said data storage media, said security system combining said user authentication message with at least part of said user identifier from said user table in accordance with said predetermined algorithm to authorize or deny said user activity.
- **53**. (Withdrawn) The portable data storage cartridge of Claim **52**, wherein said portable data storage cartridge security system is arranged to operate said computer processor system to communicate user authentication or denial via said wireless interface.
- 54. (Withdrawn) The portable data storage cartridge of Claim 52, wherein said computer processor system user table permitted activities comprise a plurality of permitted activities, selected ones of which each of said users may be authorized to conduct, said permitted activities comprising 1) read access to data stored in said data storage media, 2) write access to data stored in said data storage media, 3) read the user entry of said user

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table, 4) read all entries of said user table, 5) add entries to said user table, and 6) change/delete entries to said user table.

- 55. (Withdrawn) The portable data storage cartridge of Claim 52, wherein data stored in said data storage media is encrypted, wherein said computer processor system user table permitted activities comprise at least 1) read access to data stored in said data storage media, and wherein said user authorization for said read access additionally comprises a decryption key for said encrypted stored data.
- 56. (Withdrawn) The portable data storage cartridge of Claim 51, wherein said portable data storage cartridge security system is arranged such that each said previously stored user identifier comprises a user symbol and a user decrypting key, wherein said user authentication message comprises an encrypted user authentication message which may be decrypted by said user decrypting key, and wherein said portable data storage cartridge security system predetermined algorithm conducts said combination by decrypting said user authentication message by said user decrypting key.
- **57**. (Withdrawn) The portable data storage cartridge of Claim **56**, wherein said user decrypting key comprises a sender public key, and wherein said predetermined algorithm comprises a public key cryptographic algorithm.
- **58.** (Withdrawn) The portable data storage cartridge of Claim **57**, wherein said user authentication message is encrypted by a sender private key and a receiver public key, and wherein said public key cryptographic algorithm decrypts said user authentication message employing a receiver private key and said sender public

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key, whereby said user authentication message is known to have come from said user.

59. (Withdrawn) A portable security system configured to reside in a portable data storage cartridge, said portable data storage cartridge comprising a wireless interface mounted in said portable data storage cartridge configured to receive power and data from, and send data to, a data storage drive, when in said data storage drive; and data storage media; said portable security system comprising:

a computer processor system configured to reside in said portable data storage cartridge, configured to communicate with said wireless interface, and configured to receive power from said wireless interface; and

a security system configured for operation of said computer processor system arranged to authenticate each of separate users by combining a user authentication message received via said wireless interface, with a user identifier of a plurality of user identifiers previously stored by said computer processor system, said user identifiers comprising at least a unique user identifier for each authorized user, said combining in accordance with a predetermined algorithm of said security system.

60. (Withdrawn) The portable security system of Claim 59, wherein said computer processor system is configured to store said user identifiers of said separate users in a user table of said computer processor system, said user table comprising said at least a unique user identifier for each authorized user and at least one permitted activity said user is authorized to conduct with respect to said data storage media, said security system combining said user authentication message with at least part of said user identifier from said user table in accordance with said predetermined algorithm to authorize or deny said user activity.

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- **61.** (Withdrawn) The portable security system of Claim **60**, wherein said security system is arranged to operate said computer processor system to communicate user authentication or denial via said wireless interface.
- 62. (Withdrawn) The portable security system of Claim 60, wherein said computer processor system user table permitted activities comprise a plurality of permitted activities, selected ones of which each of said users may be authorized to conduct, said permitted activities comprising 1) read access to data stored in said data storage media, 2) write access to data stored in said data storage media, 3) read the user entry of said user table, 4) read all entries of said user table, 5) add entries to said user table, and 6) change/delete entries to said user table.
- 63. (Withdrawn) The portable security system of Claim 60, wherein data stored in said data storage media is encrypted, wherein said computer processor system user table permitted activities comprise at least 1) read access to data stored in said data storage media, and wherein said user authorization for said read access additionally comprises a decryption key for said encrypted stored data.
- 64. (Withdrawn) The portable security system of Claim 59, wherein said security system is arranged such that each said previously stored user identifier comprises a user symbol and a user decrypting key, wherein said user authentication message comprises an encrypted user authentication message which may be decrypted by said user decrypting key, and wherein said security system predetermined algorithm conducts said combination by decrypting said user authentication message by said user decrypting key.

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**65**. (Withdrawn) The portable security system of Claim **64**, wherein said user decrypting key comprises a sender public key, and wherein said predetermined algorithm comprises a public key cryptographic algorithm.

66. (Withdrawn) The portable security system of Claim 65, wherein said user authentication message is encrypted by a sender private key and a receiver public key, and wherein said public key cryptographic algorithm decrypts said user authentication message employing a receiver private key and said sender public key, whereby said user authentication message is known to have come from said user.